Alaris®DS Docking Station

Technical Service Manual

CardinalHealth

This manual has been prepared for use by qualified service personnel only.
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Cardinal Health, 1180 Rolle, Switzerland

CE

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Introduction

The Alaris® DS Docking Station (herein after referred to as "Docking Station") is designed as a modular system, containing modules for the complete range of Alaris® Infusion Pumps family.

The Asena® brand name has been recently changed to the Alaris® brand name. This change in brand name has no effect on the intended use or functionality of the product.

Familiarity

Ensure that you are fully familiar with this Docking Station by carefully studying the Directions for Use (DFU) prior to attempting any repairs or servicing.

As part of a policy of continuous improvement, product enhancements and changes are introduced from time to time.

Purpose

This Technical Service Manual shows how to set up, test and maintain the Docking Station.

It is intended for use by personnel experienced in medical equipment testing and maintenance procedures.

Symbols

Wherever you see this symbol in the manual you will find a Hints & Tips note that we hope you will find useful. These notes provide useful advice or information that may help you perform the task more effectively.

Wherever you see this symbol in the manual you will find a Toolbox note that highlights an aspect of test or maintenance that is important for you to know about. A typical example is a software upgrade that you should check has been installed.

General precautions

Please read the general Operating Precautions described in the Directions for Use carefully prior to using the Docking Station.

This Docking Station contains static-sensitive components. Observe strict precautions for the protection of static sensitive components when attempting to repair and service the Docking Station.

An explosion hazard exists if the Docking Station is used in the presence of flammable anaesthetics. Exercise care to locate the Docking Station away from any such hazardous sources.

An electrical shock hazard exists if the Docking Stations casing is opened or removed. Refer all servicing to qualified service personnel.

If the Docking Station is dropped, subjected to excessive moisture, humidity or high temperature, or otherwise suspected to have been damaged, remove it from service for inspection by qualified service personnel.

When connected to an external power source, a three-wire (Live, Neutral, Earth) supply must be used. If the integrity of the external protective conductor in the installation or its arrangement is in doubt, the Docking Station should be removed from service.

Use extreme caution when servicing equipment whilst it is connected to the AC mains.

Always visually inspect the tiles, power cord and plug for damage. If the power cord or plug are damaged they should be replaced.

Technical Feature Description

The Docking Station provides the link of modularity between the Alaris® Syringe Pumps and Alaris® Volumetric Pumps. A common docking interface provides the mains supply and easy mechanical mounting in one action, without the need for cables. Only a single mains inlet is required. The power tile at the base of the Docking Station provides the AC Mains supply and the Potential Equalisation connector.

The Docking Station has a unique, flexible mounting system - the Medical Device Interface (MDI) - mountable to a trolley or any suitable horizontal rectangular bar.

The Docking Station is simple to set up with an adaptable modular design. The Docking Station has its own power distribution circuit. The AC power is supplied via a standard IEC connector into the power tile. An illuminated isolator mains switch shows when the power is on. There is a double fuse holder protecting the AC inlet. If the AC power switch does not illuminate when the Docking Station is switched on, suspect that either the power supply fuse in the AC plug, or the internal fuses have blown. First check the power supply fuse in the AC mains plug. If the AC power switch still does not illuminate remove the equipment from service.

Test Procedures

Electrical Safety Checks

The following procedure is designed to test the electrical function and safety of the Docking Station. It should be performed on all units after any maintenance, and at least once per year.

WARNING: The following procedures use MAINS VOLTAGE and HIGH TEST CURRENTS. Appropriate precautions against electric shock should be taken at all times.

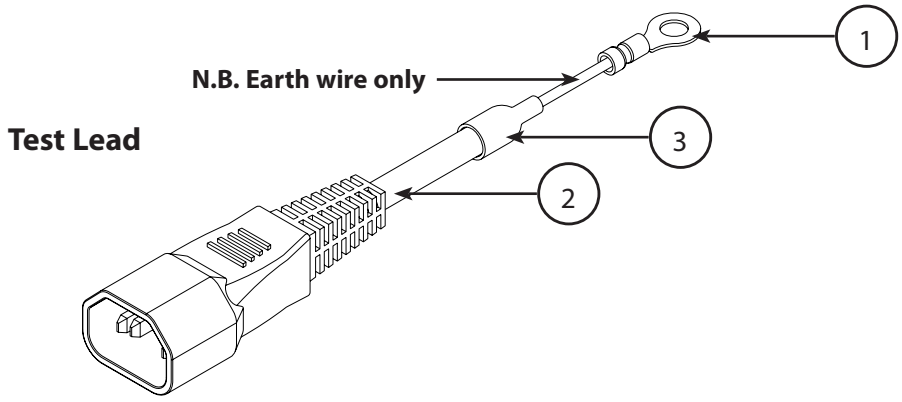
1. Connect the Docking Station to a mains supply. Move the power switch at the base of the Docking Station to the 'ON' position and check that it lights up.
2. Connect a medical grade electrical safety tester, (e.g. Metron QA-90) to a mains supply. Calibrate the Enclosure Lead, (see safety tester's operating instructions) and then connect it to the PE point of the Docking Station. Plug the mains test lead from the safety tester into the mains inlet of the Docking Station.
3. Set up and perform a standard automatic electrical safety test to EN60601-1 Class I, using an Earth Continuity test current of 25A. The tester may require an applied part 'Type' to be entered. If this is the case, 'Type B' should be selected, but no applied parts should be specified. A hard copy of the test results should be printed. The required test result limits are as follows:

Protective Earth Resistance (All test Points)	< 200mΩ
Current Consumption	< 300mA
Insulation Resistance	> 200MΩ
Earth Leakage current:	
Open Supply - (OS)	< 1000µA
Normal Condition - (NC)	< 500µA
Open Supply Reverse Mains - (OSRM)	< 1000µA
Normal Condition Reverse Mains - (NCRM)	< 500µA
Enclosure Leakage current:	
Open Supply - (OS)	< 500µA
Normal Condition - (NC)	< 100µA
Open Earth - (OE)	< 500µA
Open Supply Reverse Mains - (OSRM)	< 500µA
Normal Condition Reverse Mains - (NCRM)	< 100µA
Open Earth Reverse Mains - (OERM)	< 500µA

4. If the medical grade electrical safety tester does not include a suitable test probe to permit testing of the outlet earth pin on each tile, a test lead may be constructed using the following equipment:

1) 6mm Ring Tag	e.g. 150-272 (Farnell)	1 off
2) IEC Mains Lead (male, in-line)	e.g. 257-813 (Farnell)	1 off
3) 3:1 Heatshrink Adhesive lined	e.g. 304-7234 (Farnell)	30mm off

   Ensure that the mains lead is cut as short as possible to minimise resistance.



5. Disconnect the Enclosure Lead from the Docking Station and apply it to the ring tag on the test lead. Connect the test lead to the mains outlet of each docking tile in turn and conduct an Earth Continuity test at 25A using the electrical safety tester. In all cases, the resistance to earth from each tile outlet should not exceed 0.2Ω. If possible, the results of these tests should be included on the hard copy output from the safety tester.
6. Disconnect the Enclosure Lead from the test lead. Attach a high current probe to the enclosure lead. Using the probe and electrical safety tester, conduct Earth Continuity tests on one screw on every IEC Mains Outlet and one screw on every tile plate. In all cases, the resistance to earth from each tile outlet should not exceed 0.2Ω. If possible, the results of these tests should be included on the hard copy output from the safety tester.

Routine Maintenance Procedures

To ensure that all parts of the Docking Station remain in good operating condition, it is important to keep it clean and perform the routine maintenance procedures described below. All servicing should only be performed by a qualified service engineer.

Interval	Routine Maintenance Procedure
When turning ON	Check that the ON/OFF switch is illuminated when in the ON position.
When loading pumps	Check that each pump is properly located on its electrical connectors and is mechanically locked into position.
When removing pumps	Check that the red LED on the docking tile turns OFF when the pump is removed. If the LED stays ON, the Docking Station should be serviced by a qualified service engineer.
As required	Thoroughly clean external surfaces of the equipment before and after prolonged periods of storage
After servicing	On final assembly check that all connectors are correctly fitted and located, ensuring that all earth cables are tightly secured to the extrusion and that there are no loose items within the assembly. Check that all the labels are correctly located, that there are no scratches or damage.
12 Monthly	● Inspect AC outlets, communication connectors and the AC inlet for damage. ● Perform electrical safety checks (see 'Test Procedures'). The complete unit leakage current must be measured. If more than 500µA the equipment should not be used, but should be serviced by a qualified service engineer.

If any item is dropped, damaged, subjected to excessive moisture or high temperature, take it out of service immediately for examination by a qualified service engineer.

Cleaning and Storage

Periodically during use, clean all exterior surfaces by wiping over with a lint-free cloth lightly dampened with warm water and a standard disinfectant / detergent solution.

Before cleaning always switch OFF the Docking Station, disconnect from the AC power supply and remove all pumps. Never allow liquid to enter the tiles or electrical contacts and avoid excess fluid build-up on the surface of the tiles. Do not use aggressive solvents or abrasive cleaning agents as these may damage the exterior surface of the Docking Station.

Disposal

Information on Disposal for Users of Waste Electrical & Electronic Equipment

This ⌧ symbol on the product and/or accompanying documents means that used electrical and electronic products should not be mixed with household waste.
If you wish to discard electrical and electronic equipment, please contact your Cardinal Health affiliate office or distributor for further information.
Disposing of this product correctly will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.

Information on Disposal in Countries outside the European Union

This symbol is only valid in the European Union. The product should be disposed of taking environmental factors into consideration. All components can be safely disposed of as per local regulations.

Trouble Shooting Guide

Docking Station has been dropped or damaged

- If the equipment is damaged, the damaged parts should be identified and replaced before any further troubleshooting is carried out.
- During inspection, careful attention should be paid to the power tile and each docking tile, which may be damaged if the Docking Station is dropped.

Docking Station has been exposed to fluids

- Excessive fluid spills can lead to fluid ingress into the Docking Station. Even if the fluid dries out, deposits can be left which cause the equipment to fail.
- If fluid ingress is suspected the Docking Station should be inspected internally.
- Clean and dry out the equipment.
- Take care to ensure dried out deposits do not remain on the PCBs or other electrical components. Replace permanently damaged tiles.

Docking Station will not power from AC mains

- First check the function of the mains cable with another piece of working equipment.
- Check that the mains is switched on at the wall outlet, if applicable.
- Check that the power cord is seated properly in the mains inlet. Also check the fuse in the AC mains plug.
- If the AC Power switch does not illuminate when the pump is connected to a live AC cable, check the mains fuses at the mains inlet.

No power present at pump

- Check that the Docking Station is switched on and has power.
- Check that the pump is correctly seated on the tile.
- Hold a magnet next to the Infra-Red communications port on the tile. If the Warning LED does not light up the tile must be replaced. If the LED does light up, suspect a problem with the pump and remove from service to be examined by a qualified service engineer.

Warning LED remains lit when pump is removed from tile

- Remove and check that the tile relay body is not distorted by trapped cable loom(s). If relay body is distorting reposition cable loom(s) away from the relay body.
- Replace the complete tile, following the instructions in 'Spare Parts Replacement Procedures'.

Ensure the Docking Station is disconnected from the AC power supply and switched off before attempting to service.

The Docking Station contains static-sensitive components and therefore strict ESD precautions should be observed at all times.

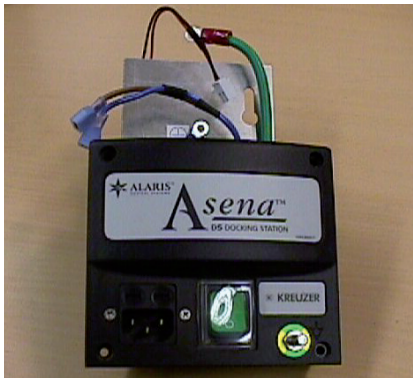
Only use Cardinal Health recommended spare parts.

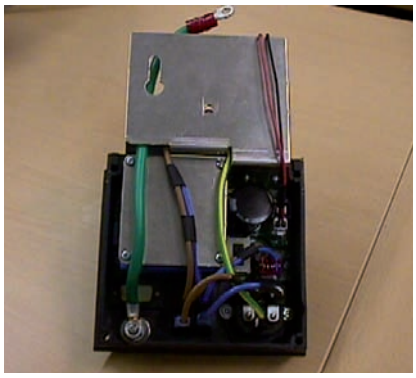
Following all spare part replacement and repair activities, testing must be performed in accordance with the 'Routine Maintenance' section.

Power Tile

Replacement Procedure

1. Release the four M4x30 screws on the power tile and the four M4 screws on the adjacent pump tile.
2. Unscrew the two earth cables from the extrusion.
3. Remove the 15V DC supply connector (PL5) from the adjacent pump tile. Also disconnect the Live and Neutral (SC1 and SC2) connectors from the adjacent tile.
4. The complete power tile module can now be removed and replaced with the new power tile. Slide the new power tile into the extrusion. Reconnect the 15V DC supply, live and neutral to PL5, SC1 and SC2 on the adjacent pump tile.
5. Refit the two earth cables to the extrusion.
6. Check that all connectors are correctly fitted and located. Ensure that all earth cables are tightly secured to the extrusion.
7. Lower the pump tile into position in the extrusion and secure both the adjacent pump tile and the new power tile, using the M4 screws with loctite 243 on the screw threads and fastened to 40cNm.

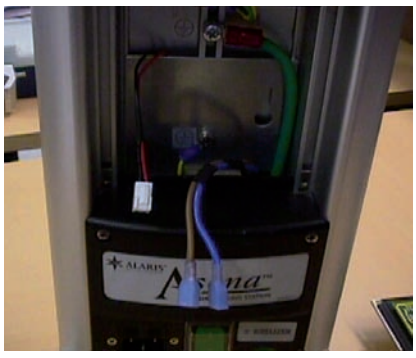


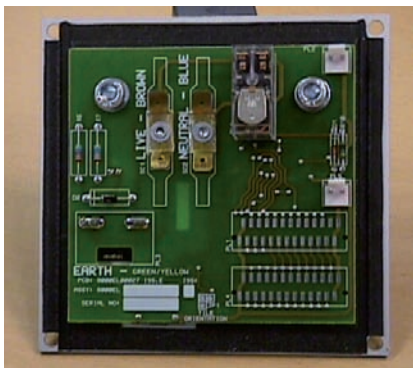


Docking Tile

Replacement Procedure

1. Remove the four M4x10 screws on the tile.
2. Remove connectors PL5 and PL2. Disconnect Live and Neutral (SC1 and SC) and the IEC Mains Outlet earth cable (PL3).
3. Fit the new tile. Ensure that the tile spacer is flush to the tile above.
4. Reconnect all cables.
5. Before fitting the four M4x10 screws ensure that screw threads have loctite 243 on, then fully fasten down to 100cNm,



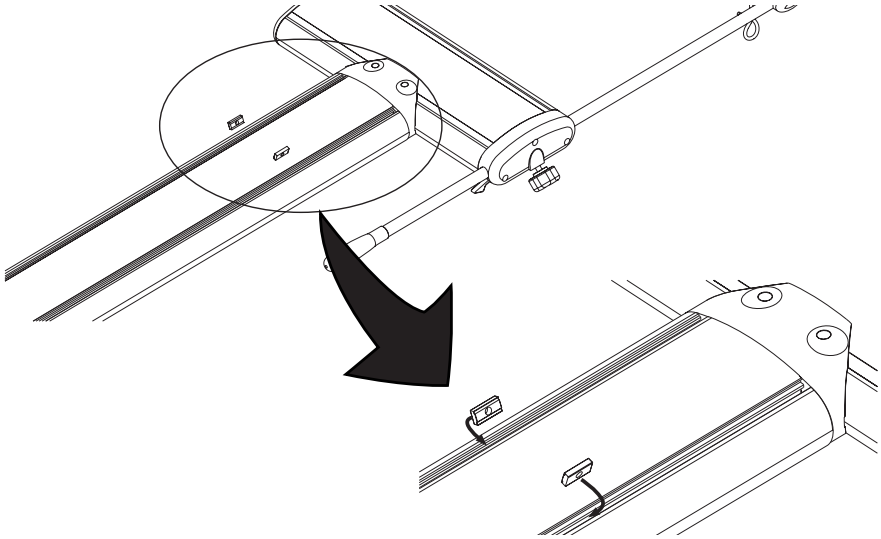


Bar Mounting Kit

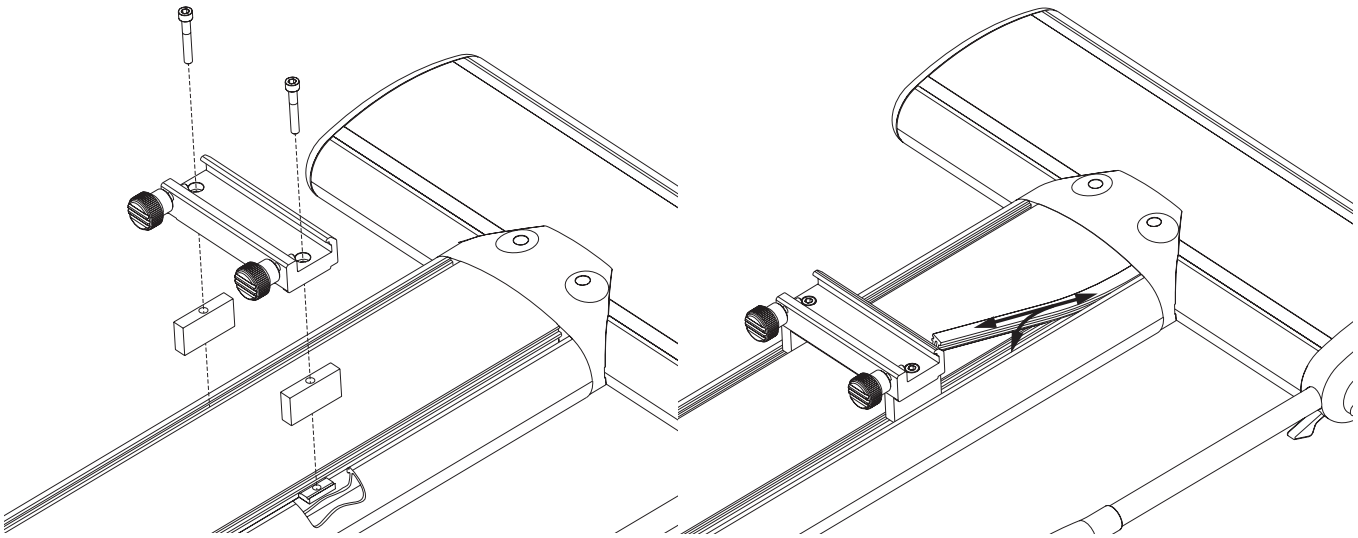
Replacement Procedure

This instruction details the fitting of the bar mounting kit to a Docking Station to enable the Docking Station to be secured to either a bar mounting wall or trolley mounting.

1. Place the Docking Station face down on a surface or bench, ensuring that the surface is clean and will not scratch or damage the Docking Station. If the Docking Station is fitted with a horizontal section care must be taken not to rest the weight of the Docking Station on the bag hooks. The bag holder should be either rotated so it is pointing upwards or the Docking Station should be positioned so that the bag hooks overhang the end of the table or bench.
2. Disassemble the mounting kit and drop one of the two square nuts into each channel in the rear of the extrusion. See below.



3. Using a tool, such as a screwdriver, slide the nuts along the channels so that they are parallel in the position required.
4. Fit the mounting blocks over the top of each of the square nuts and place the bar mount across the two blocks, ensuring that the screw holes line up on each side.

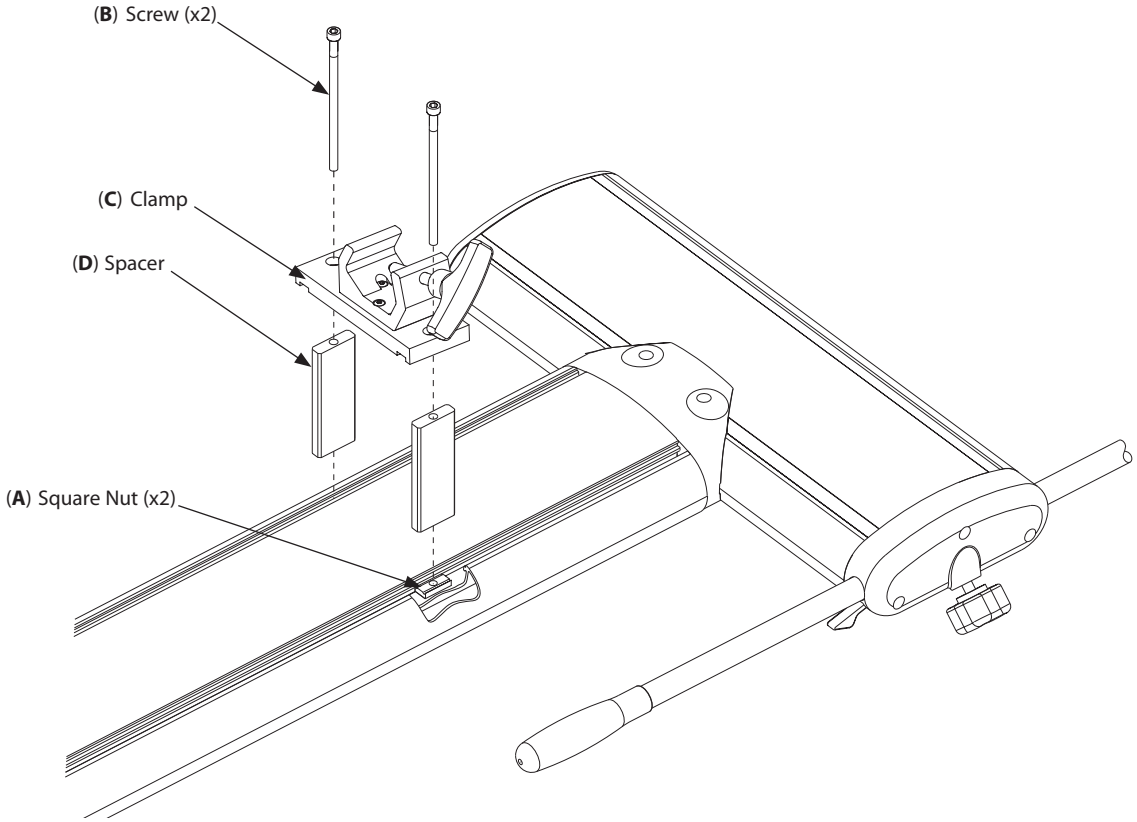


5. Fit the two hex screws through the bar mounting and through the mounting blocks. Line up the end of the screws with the thread of the square nuts, turn the screws until the threads engage and then screw up as normal.
6. Tighten up both screws ensuring that the mounting kit is level and secure.
7. Cut a section of sealing cord to a length suitable to fill the channel between the mounting kit and the end of the extrusion.
8. Press one end of the cord into the channel at the end of the extrusion. Carefully stretch the cord and press it into place.
9. Repeat the operation for the remaining sections of channel.

Pole Mounting KIt

Fitting Procedure

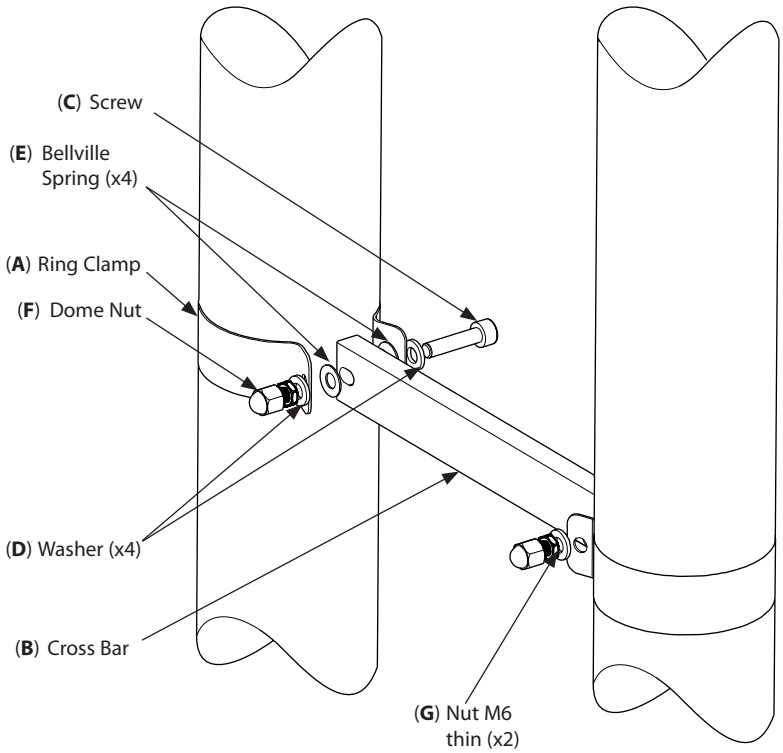
1. Remove Sealing Cord from the channel. Using an Allen key, remove the fasteners from the pre-fitted Square Nuts (A) in the extrusion channel. Using a screwdriver or similar pointed tool, slide the loosened Square Nuts along the channel to the required position.
2. Insert the two Screws (B) through the Clamp (C) and Spacers (D).
3. Tighten the Screws ensuring that the mounting kit remains level.
4. Insert the Mounting Knobs (E) into the Clamp.
5. Repeat the process for the second kit.
6. Cut a length of Sealing Cord to fill the channel between the mounting kit and the end caps.
7. Carefully press the cord into place.
8. Repeat the operation for the remaining sections of the channel.



Trolley Mounting Kit

Fitting Procedure

1. Remove the plastic coating from the inner and outer surfaces of the Ring Clamp (A).
2. Slide one ring clamp over each trolley pole.
3. Align the Cross Bar (B) fixing holes with those in each of the Ring Clamps.
4. Insert the Fixing Screw (C) through the assembly positioning washers (D) and (E) as shown.
5. Position the support bar and tighten the Thin Nut (G), Dome Nut (F) and screw to 3Nm.



Installation to the Trolley

1. When fixing the Docking Station to the trolley, the mounting kits should be positioned and tightened so that the mount clamps align with the 10 x 25mm bars on the trolley.
2. The Docking Station should then be mounted so both top and bottom mount clamps fit over the 10 x 25mm bar of the trolley.
3. The knobs should be tightened in order to fully restrain the Docking Station into position.

Horizontal Extrusion

Replacement Procedure

For more information refer to the mechanical assembly drawings in this section.

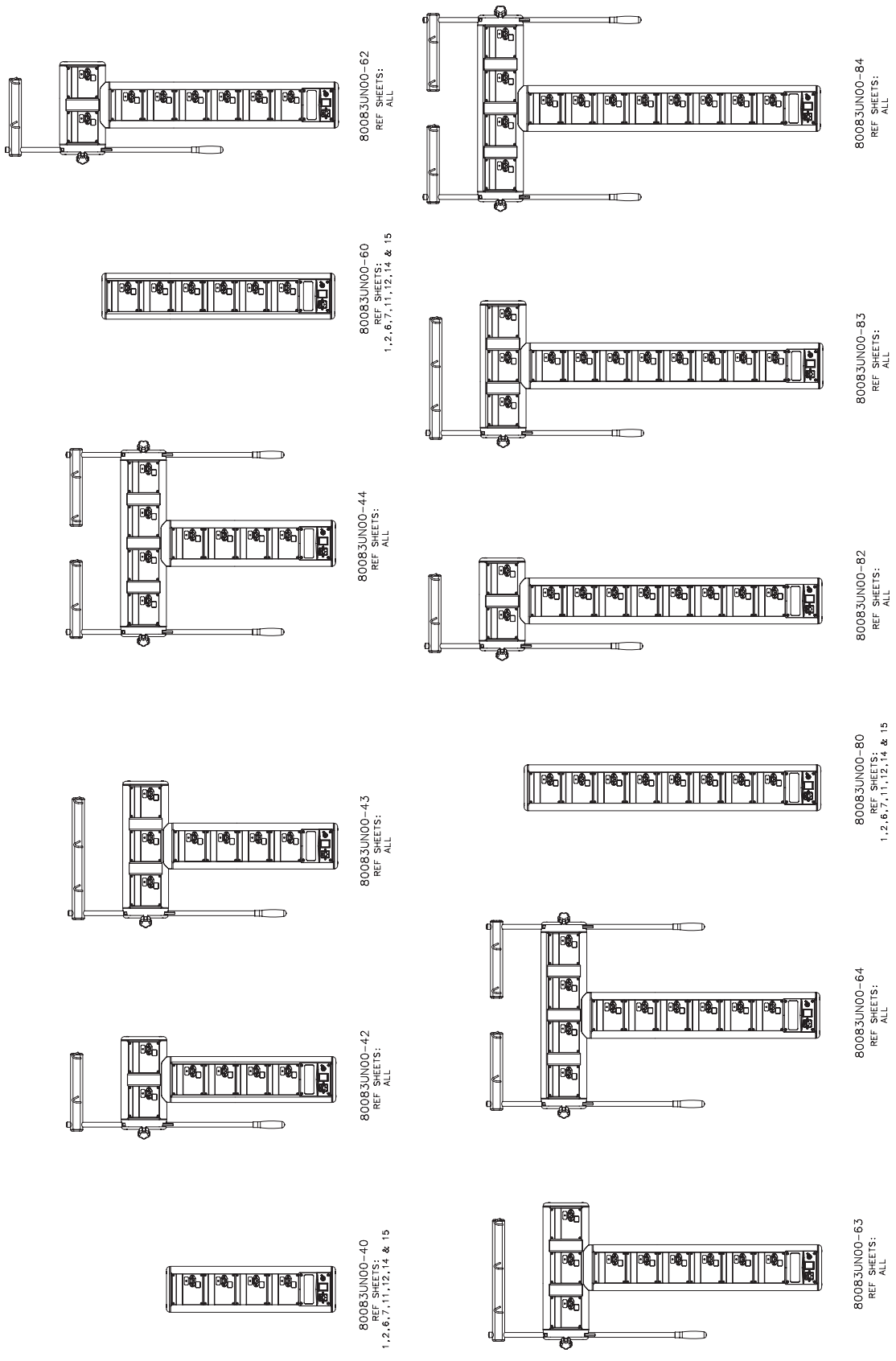
1. Where a horizontal extrusion is already fitted, remove the screws at the rear and base of the T-piece.
2. Remove pole hanger assembly, end cap mouldings, castings, slip catch and end cap intermediate.
3. Remove the tile at the far right of the extrusion. Disconnect cables PL5 and PL2. The extrusion can now be removed and replaced with a new extrusion.
4. Replace the horizontal extrusion to the vertical by aligning the screw threads on the bottom face of the horizontal extrusion with the plastic T piece moulding, also the rear of the T piece. Fasten the screws to 70cNm. Replace end cap intermediate, castings and slip catch.
5. Loosen the tile on the far right-hand side of the new extrusion. Reconnect cables PL5 and PL2 to the tile in the far right-hand position. Refit the tile to the extrusion.

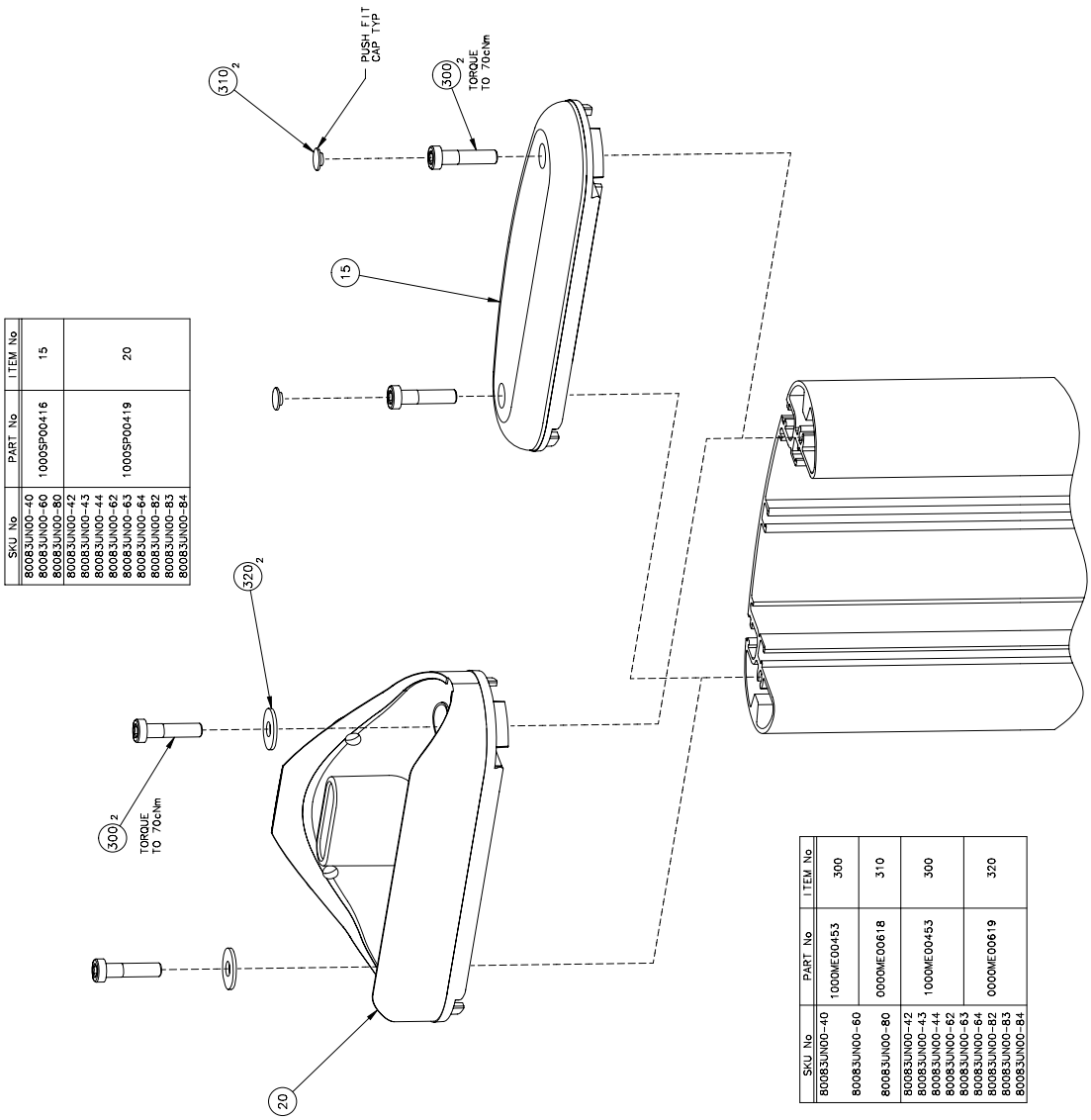
Fuse

Replacement Procedure

1. Using a flat-bladed screwdriver, unscrew the fuse holder. Each holder has a separate socket.
2. Replace the blown fuse or fuses with the same type and rating of fuse.
3. Slide the holder back into the fuse socket in the power tile and twist to secure.

The following Assembly Drawings contain details of all component parts for the Docking Station. To order replacement parts, locate the component part on the drawing and order the associated spare parts kit listed.

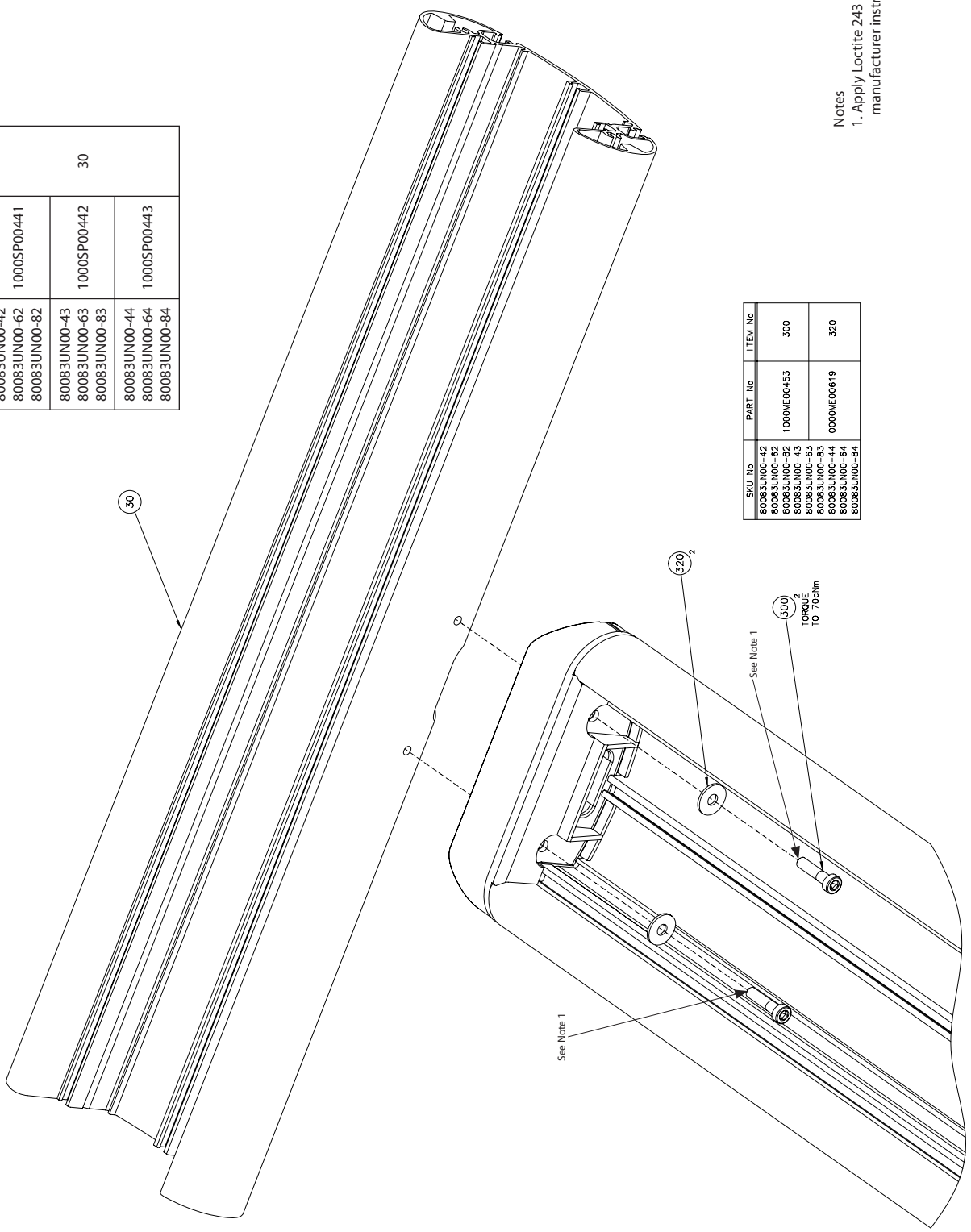




SKU No	PART No	ITEM No
8008JUN00-40	1000SP00416	15
8008JUN00-60		
8008JUN00-80		
8008JUN00-42	1000SP00419	20
8008JUN00-43		
8008JUN00-44		
8008JUN00-62		
8008JUN00-63		
8008JUN00-64		
8008JUN00-82		
8008JUN00-83		
8008JUN00-84		

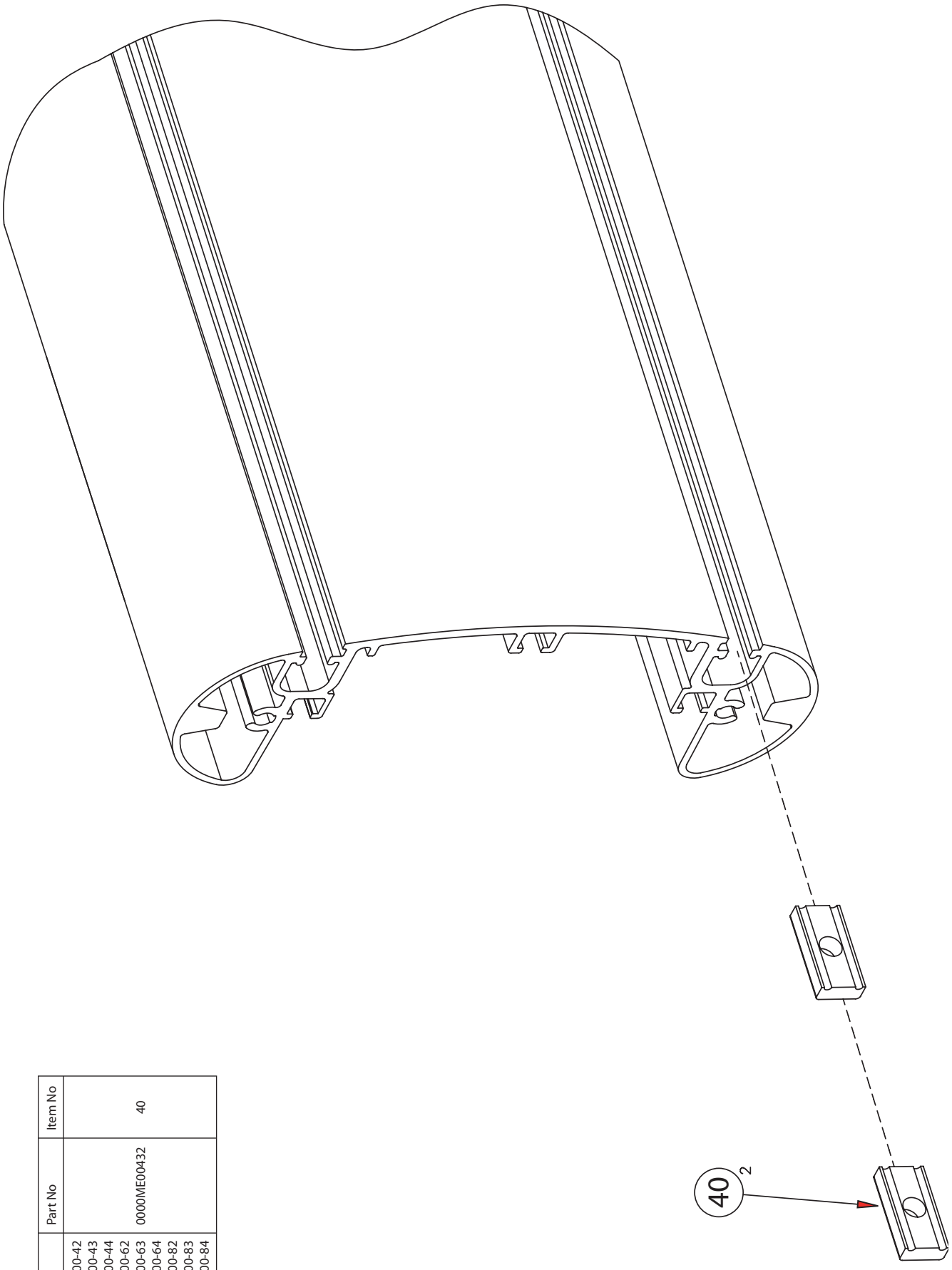
SKU No	PART No	ITEM No
8008JUN00-40	1000ME00453	300
8008JUN00-60		
8008JUN00-80	0000ME00618	310
8008JUN00-42	1000ME00453	300
8008JUN00-43		
8008JUN00-44		
8008JUN00-62		
8008JUN00-63		
8008JUN00-64	0000ME00619	320
8008JUN00-82		
8008JUN00-83		
8008JUN00-84		

SKU No	Part No	Item No
80083UN00-42 80083UN00-62 80083UN00-82	1000SP00441	30
80083UN00-43 80083UN00-63 80083UN00-83	1000SP00442	
80083UN00-44 80083UN00-64 80083UN00-84	1000SP00443	



SKU No	PART No	ITEM No
80083UN00-42 80083UN00-62 80083UN00-82 80083UN00-43 80083UN00-63 80083UN00-83	1000ME00453	300
80083UN00-44 80083UN00-64 80083UN00-84	0000ME00619	320

Notes
1. Apply Loctite 243 in accordance with manufacturer instructions.



SKU No	Part No	Item No
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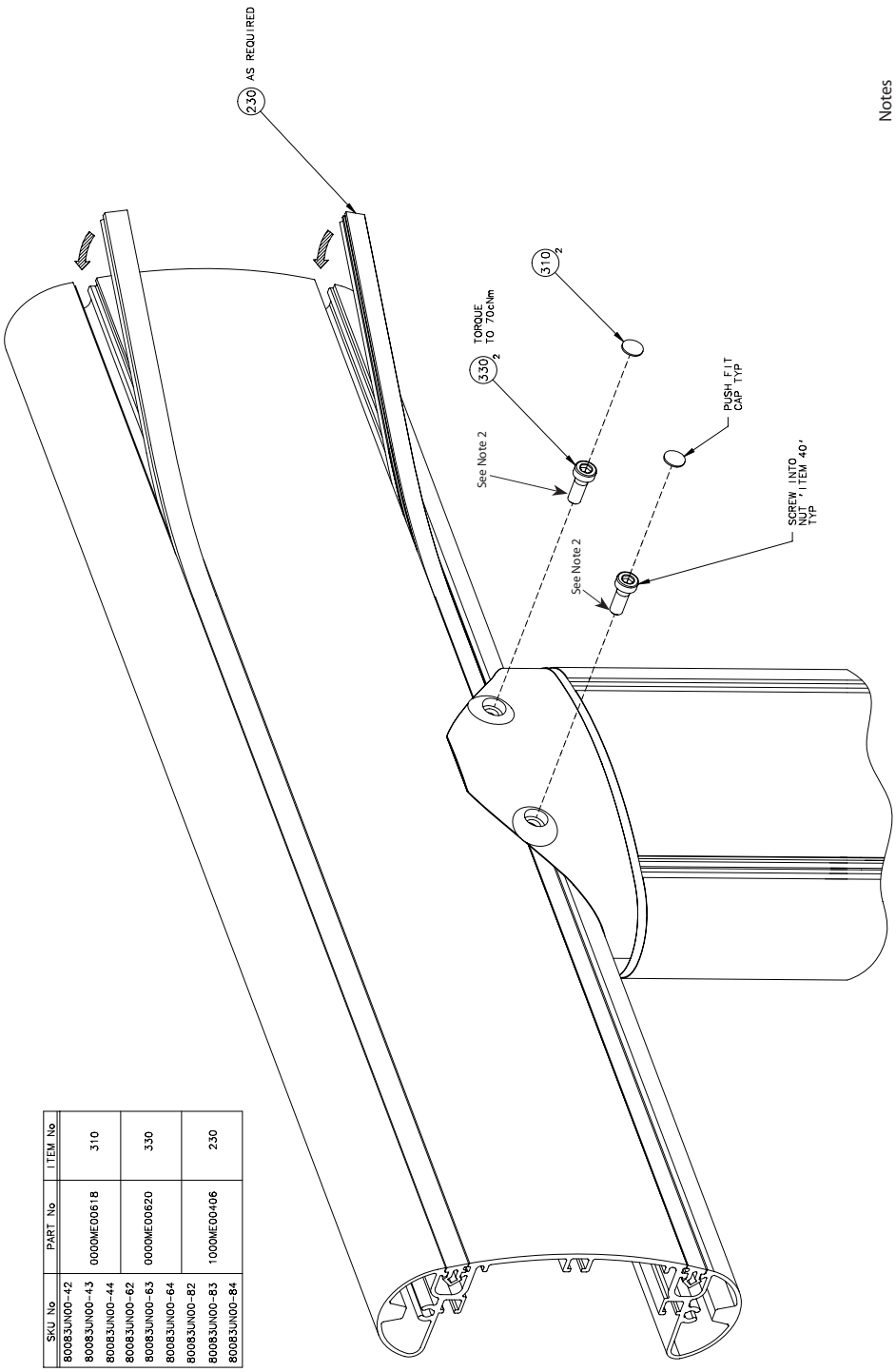
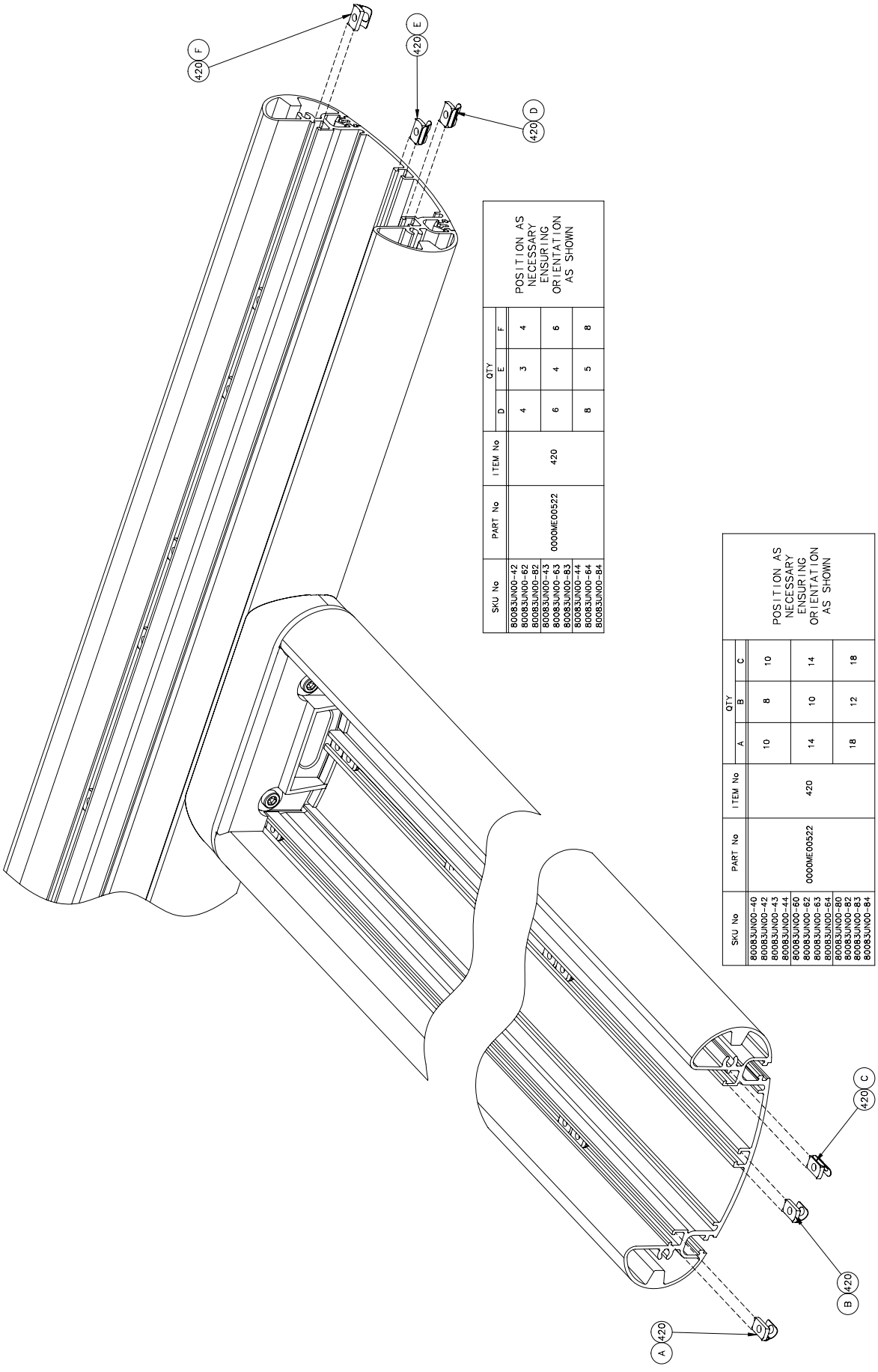


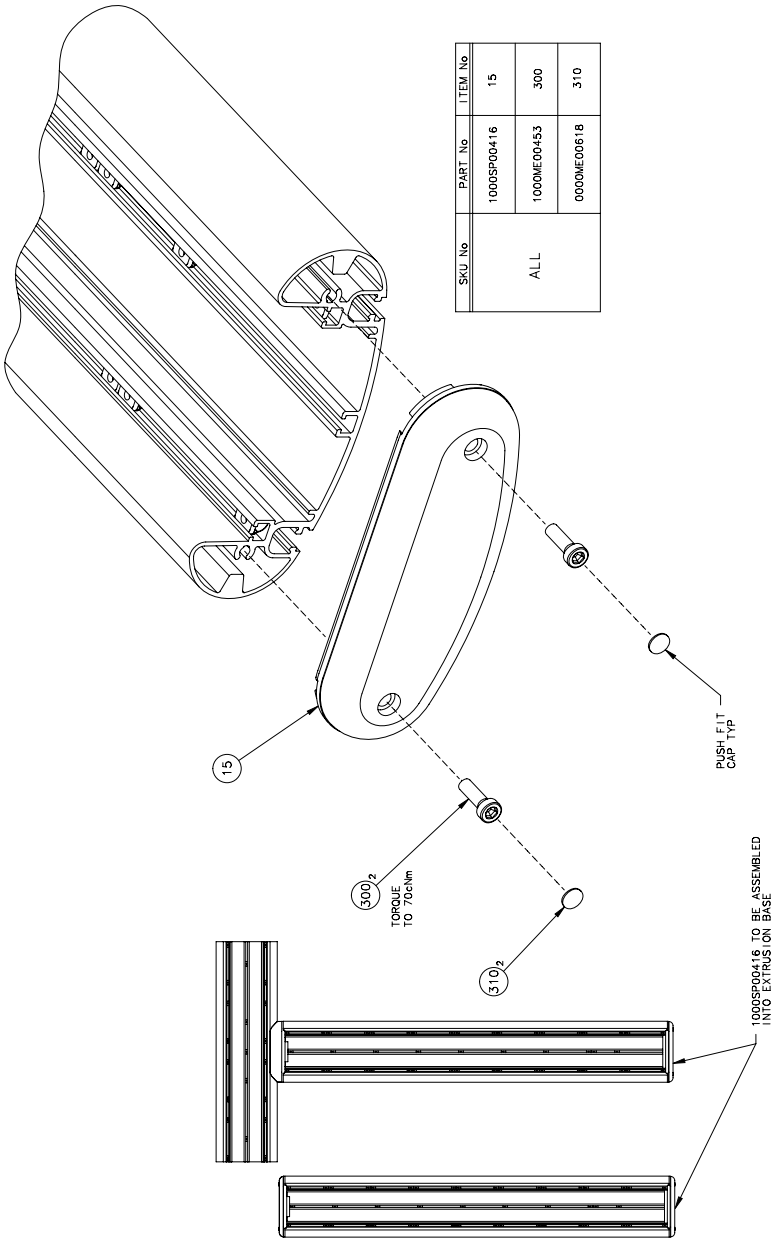
Notes
1. Sequence of assembly - Assemble Item 230 prior to fitting screws.
2. Apply Loctite 243 in accordance with manufacturer instructions.

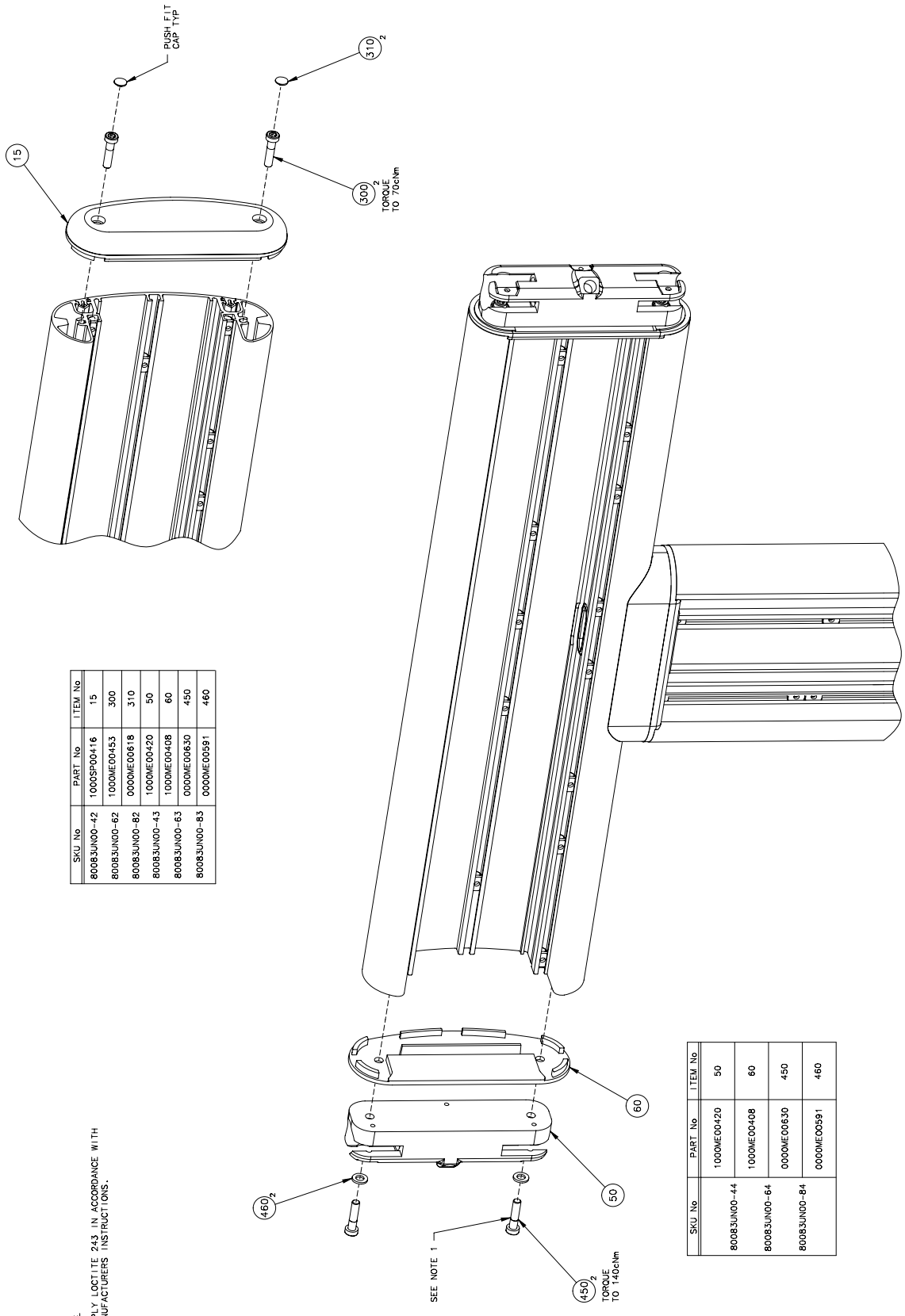
SKU No	PART No	ITEM No
8008JUN00-42	0000ME00618	310
8008JUN00-43		
8008JUN00-44		
8008JUN00-62	0000ME00620	330
8008JUN00-63		
8008JUN00-64		
8008JUN00-82	1000ME00406	230
8008JUN00-83		
8008JUN00-84		



SKU No	PART No	ITEM No	QTY D	QTY E	QTY F	POSITION AS NECESSARY ENSURING ORIENTATION AS SHOWN
8008JUN00-42	0000ME00522	420	4	3	4	
8008JUN00-62						
8008JUN00-82						
8008JUN00-43			6	4	6	
8008JUN00-63						
8008JUN00-83						
8008JUN00-44			8	5	8	
8008JUN00-64						
8008JUN00-84						

SKU No	PART No	ITEM No	QTY A	QTY B	QTY C	POSITION AS NECESSARY ENSURING ORIENTATION AS SHOWN
8008JUN00-40	0000ME00522	420	10	8	10	
8008JUN00-42						
8008JUN00-43						
8008JUN00-44			14	10	14	
8008JUN00-60						
8008JUN00-62						
8008JUN00-63						
8008JUN00-64			18	12	18	
8008JUN00-80						
8008JUN00-82						
8008JUN00-83						
8008JUN00-84						

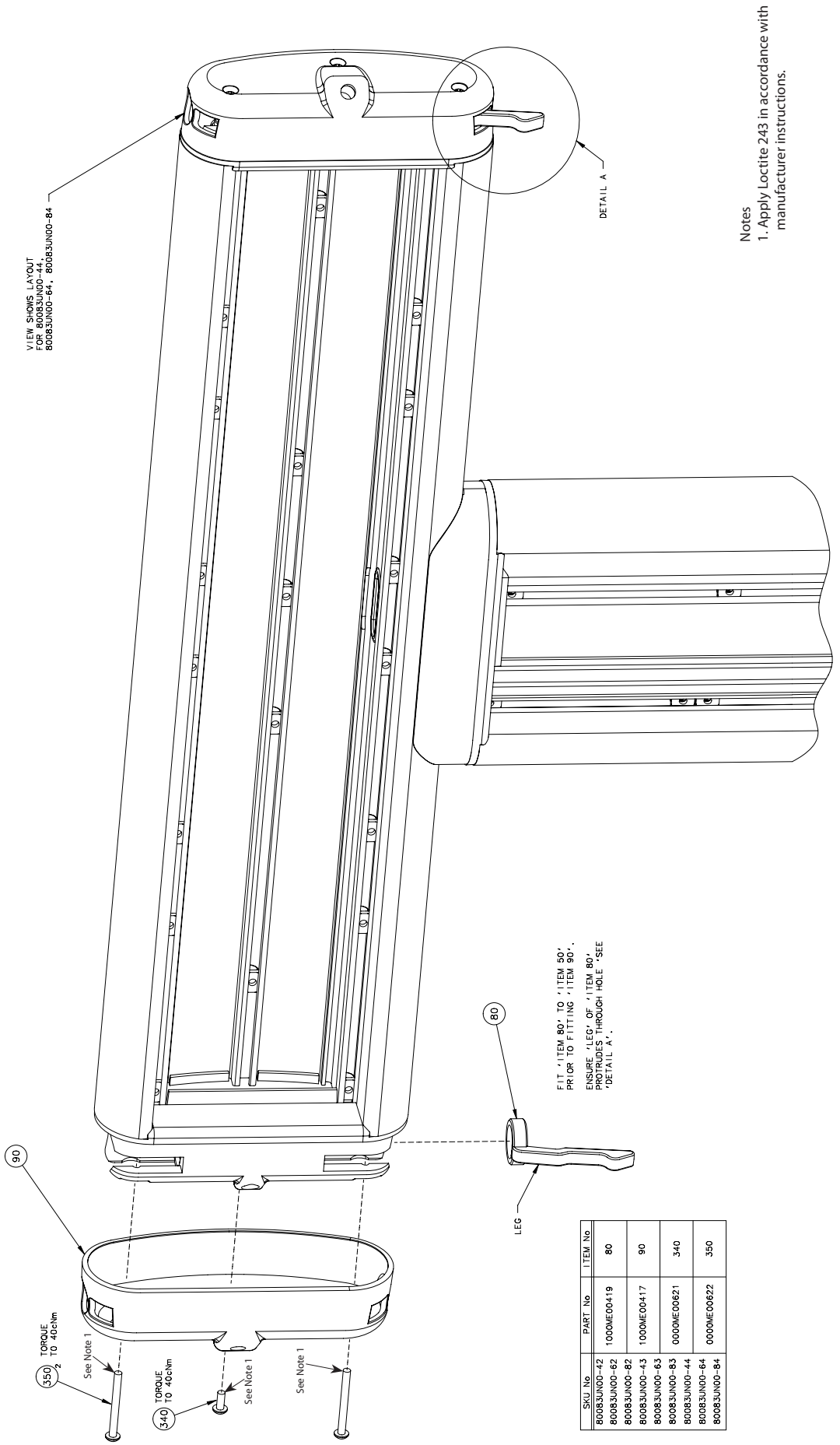

SKU No
PART No
ITEM No
ALL
1000SP00416
15
1000ME00453
300
0000ME00618
310
15
300
2
TORQUE
TO 70cNm
310
2
PUSH FIT
CAP TYP
1000SP00416 TO BE ASSEMBLED
INTO EXTRUSION BASE



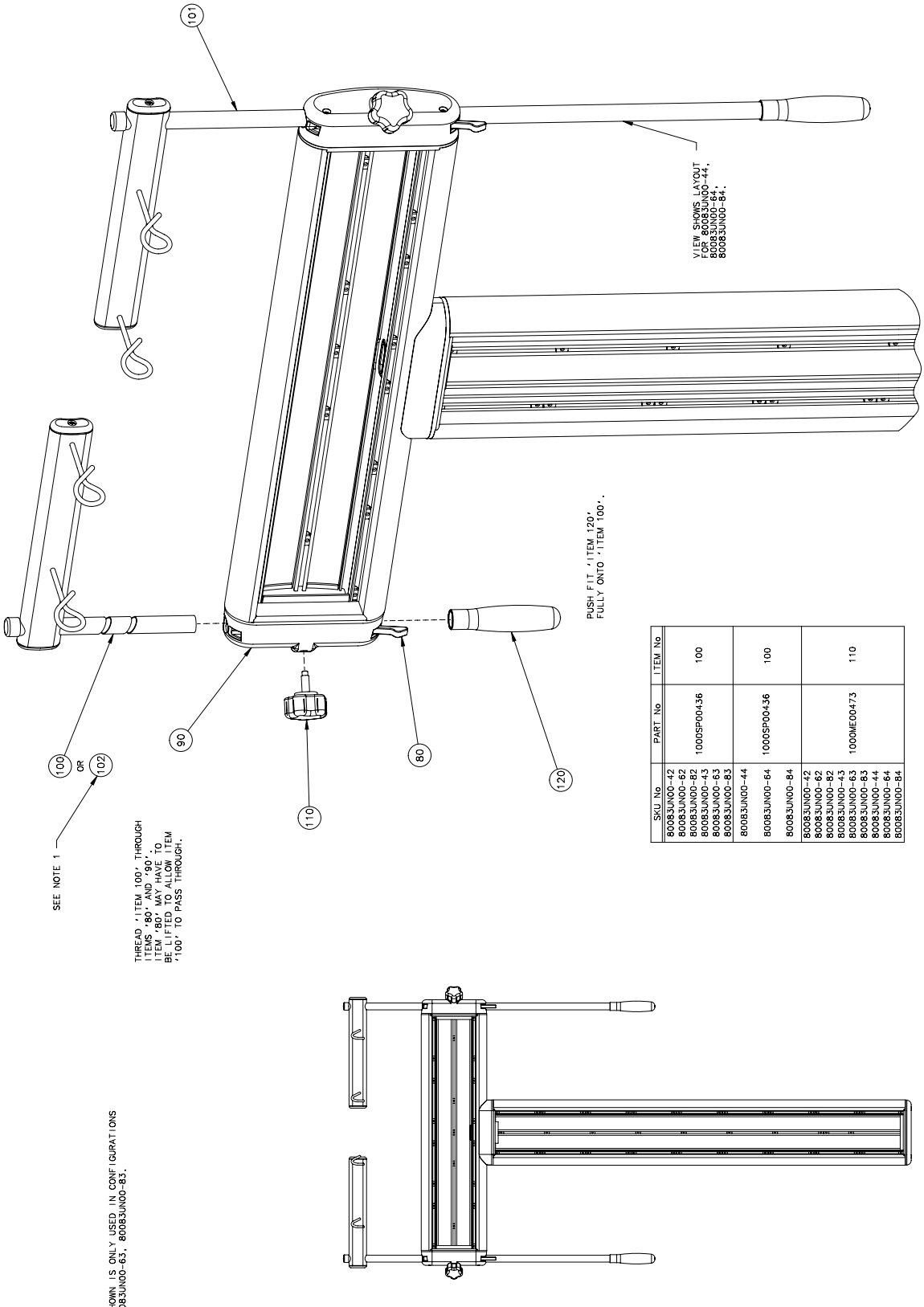
SKU No	PART No	ITEM No
80083UN00-42	1000SP00416	15
80083UN00-62	1000ME00453	300
80083UN00-82	0000ME00618	310
80083UN00-43	1000ME00420	50
80083UN00-63	1000ME00408	60
80083UN00-83	0000ME00630	450
80083UN00-83	0000ME00591	460

SKU No	PART No	ITEM No
80083UN00-44	1000ME00420	50
80083UN00-64	1000ME00408	60
80083UN00-84	0000ME00630	450
	0000ME00591	460

NOTES:
1. APPLY LOCTITE 243 IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.



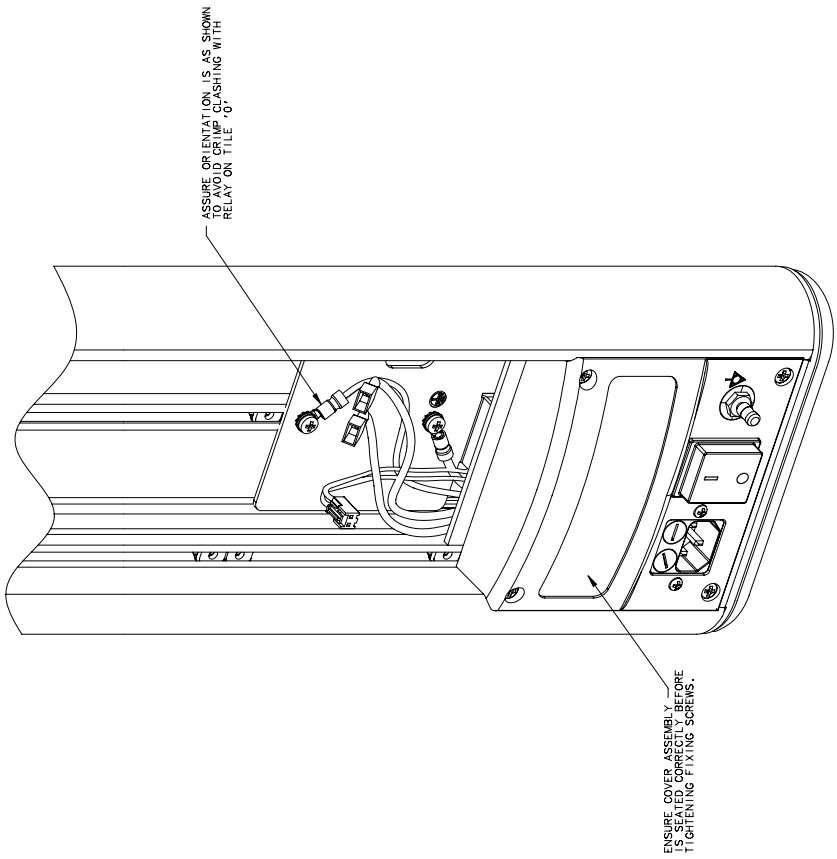
SKU No	PART No	ITEM No
80083UN00-42	1000ME00419	80
80083UN00-62		
80083UN00-82	1000ME00417	90
80083UN00-43		
80083UN00-63		
80083UN00-83	0000ME00621	340
80083UN00-44		
80083UN00-64	0000ME00622	350
80083UN00-84		


101
VIEW SHOWS LAYOUT FOR 80083UN00-44, 80083UN00-64, 80083UN00-84.
PUSH FIT 'ITEM 120' FULLY ONTO 'ITEM 100'.
100
OR
102
SEE NOTE 1
90
110
80
120
THREAD 'ITEM 100' THROUGH ITEMS '80' AND '90'. ITEM '80' MAY HAVE TO BE LIFTED TO ALLOW ITEM '100' TO PASS THROUGH.

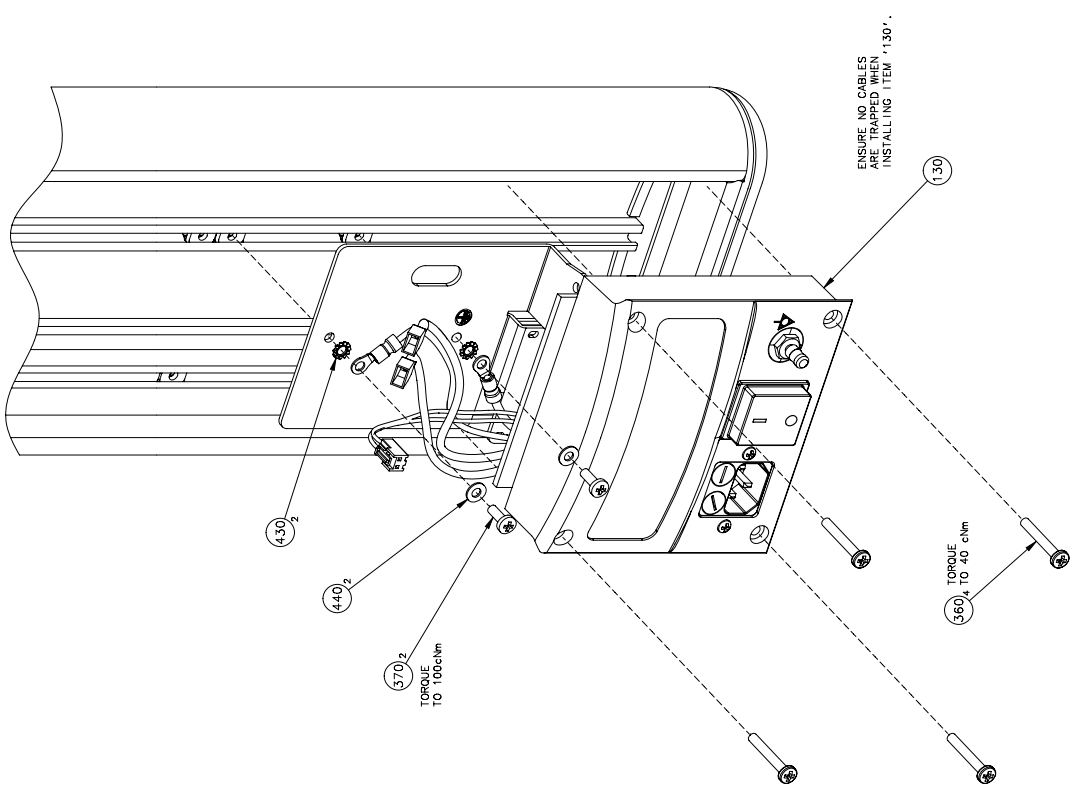
SKU No	PART No	ITEM No
80083UN00-42	1000SP00436	100
80083UN00-62		
80083UN00-82		
80083UN00-43		
80083UN00-63		
80083UN00-83		
80083UN00-44	1000SP00436	100
80083UN00-64		
80083UN00-84		
80083UN00-42	1000ME00473	110
80083UN00-62		
80083UN00-82		
80083UN00-43		
80083UN00-63		
80083UN00-83		
80083UN00-44		
80083UN00-64		
80083UN00-84		

NOTES:

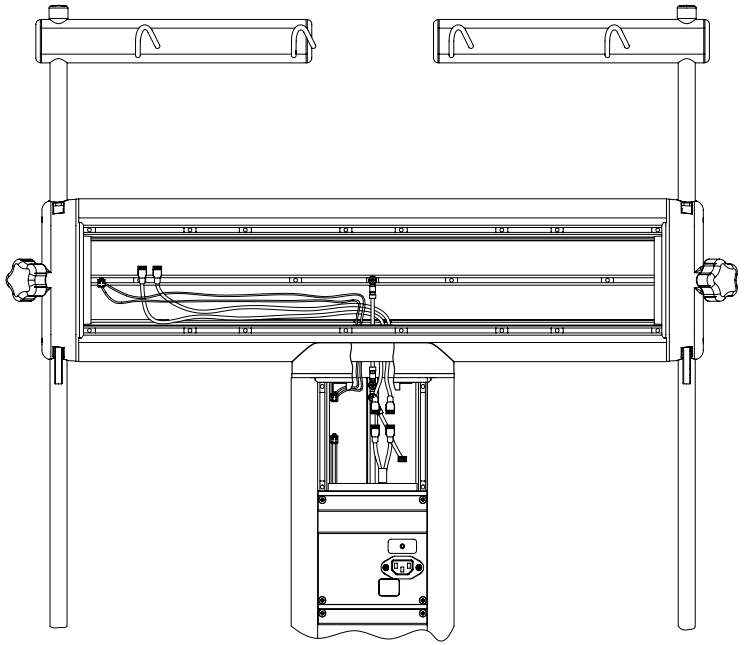
1. 'ITEM 102' NOT SHOWN IS ONLY USED IN CONFIGURATIONS 80083UN00-43, 80083UN00-63, 80083UN00-83.

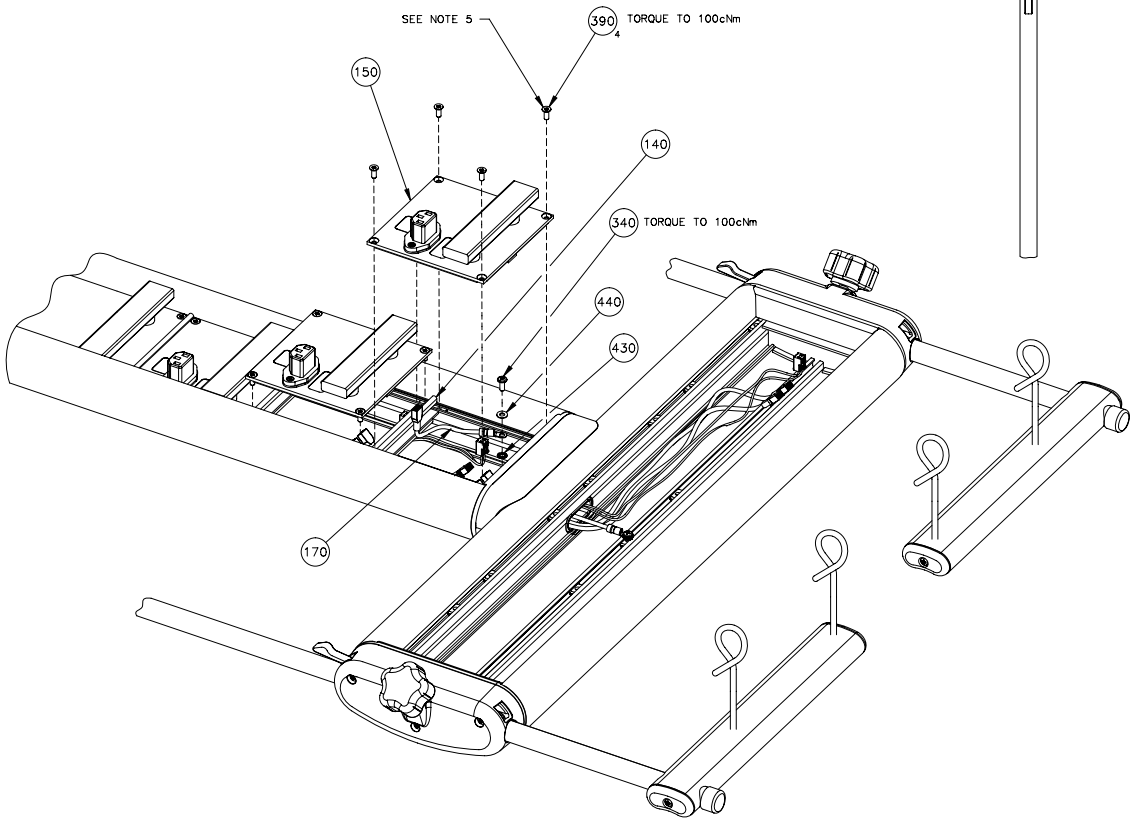

ASSURE ORIENTATION IS AS SHOWN TO AVOID CRIMP CLASHING WITH RELAY ON TILE '0'.
ENSURE COVER ASSEMBLY IS SEATED CORRECTLY BEFORE TIGHTENING FIXING SCREWS.

SKU No	PART No	ITEM No
ALL	1000SP00425	130
	0000ME00595	360
	0000ME00596	370
	0000ME00626	440
	0000ME00625	430

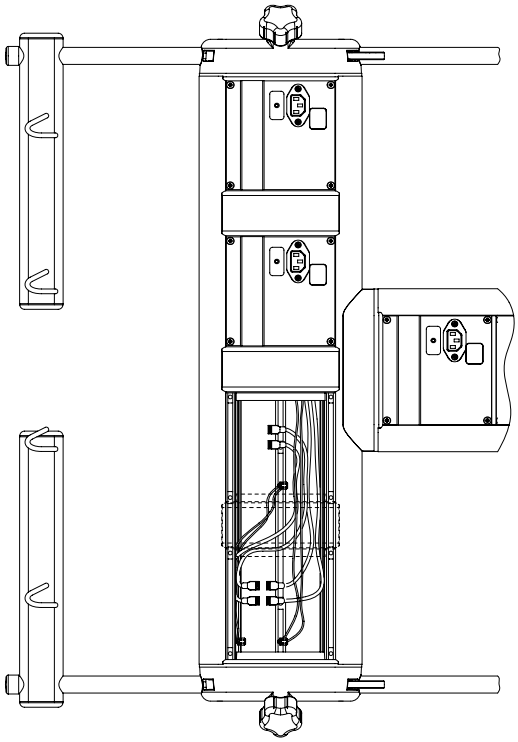


Notes
1. Place tile spacers item 140 in position prior to fitting tiles.
2. Do not fully tighten tile fixing screws until all the tile assemblies are connected and in place.
3. Ensure no cables are trapped when fitting item 150.
4. For connection details and cable selection see wiring diagram in this section.
5. Apply Loctite 243 in accordance with manufacturer instructions.

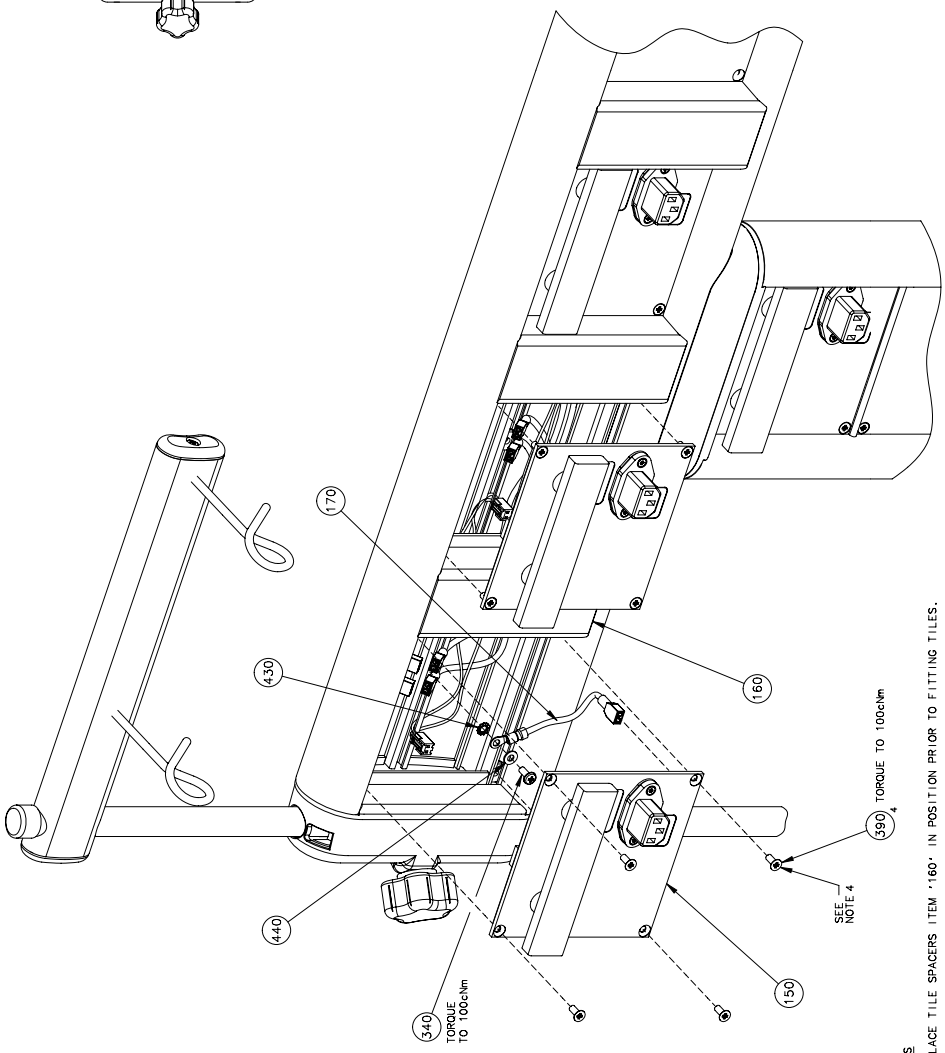




SKU No	PART No	ITEM No
80083UN00-40 80083UN00-42	1000SP00423	150
80083UN00-43 80083UN00-44	1000ME00413	140
80083UN00-60	0000ME00621	340
80083UN00-62 80083UN00-63	0000ME00626	440
80083UN00-64 80083UN00-80	0000ME00625	430
80083UN00-82 80083UN00-83	0000ME00589	390
80083UN00-84	1000SP00452	170

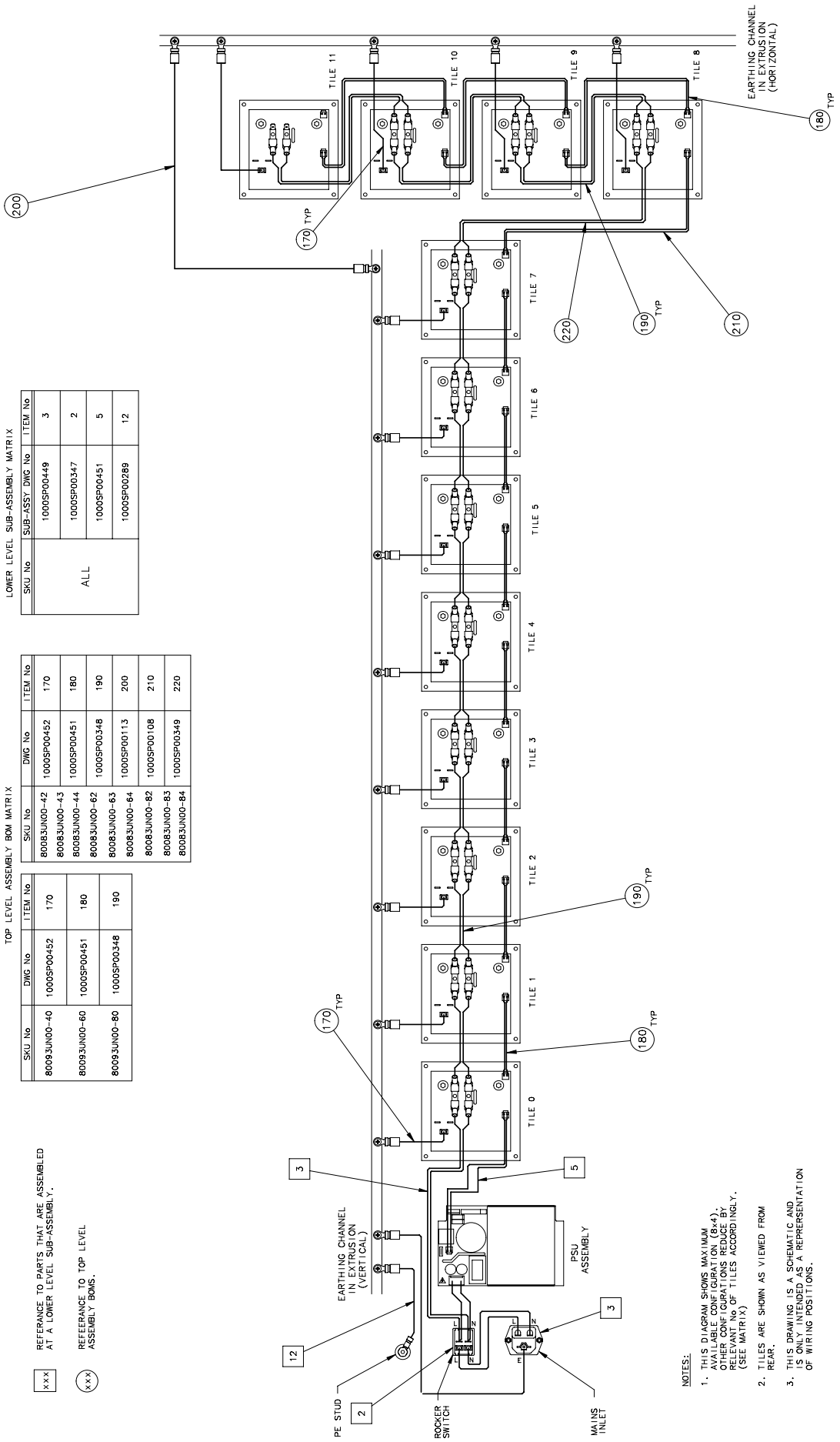


SKU No	PART No	ITEM No
8008JUN00-42	1000SP00423	150
8008JUN00-43	1000ME00409	160
8008JUN00-44	0000ME00621	340
8008JUN00-62	0000ME00626	440
8008JUN00-63	0000ME00825	430
8008JUN00-64	0000ME00589	390
8008JUN00-82	1000SP00452	170
8008JUN00-83		
8008JUN00-84		



NOTES

1. PLACE TILE SPACERS ITEM '160' IN POSITION PRIOR TO FITTING TILES.
2. DO NOT FULLY TIGHTEN TILE FIXING SCREWS UNTIL ALL THE TILE ASSEMBLIES ARE CONNECTED AND IN PLACE.
3. ENSURE NO CABLES ARE TRAPPED WHEN FITTING ITEM '150'.
4. APPLY LOCTITE 243 IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.



TOP LEVEL ASSEMBLY BOM MATRIX

SKU No	DWG No	ITEM No
80093UN00-40	1000SP00452	170
80093UN00-60	1000SP00451	180
80093UN00-80	1000SP00348	190

SKU No	DWG No	ITEM No
80083UN00-42	1000SP00452	170
80083UN00-43		
80083UN00-44	1000SP00451	180
80083UN00-62	1000SP00348	190
80083UN00-63		
80083UN00-64	1000SP00113	200
80083UN00-82	1000SP00108	210
80083UN00-83		
80083UN00-84	1000SP00349	220

LOWER LEVEL SUB-ASSEMBLY MATRIX

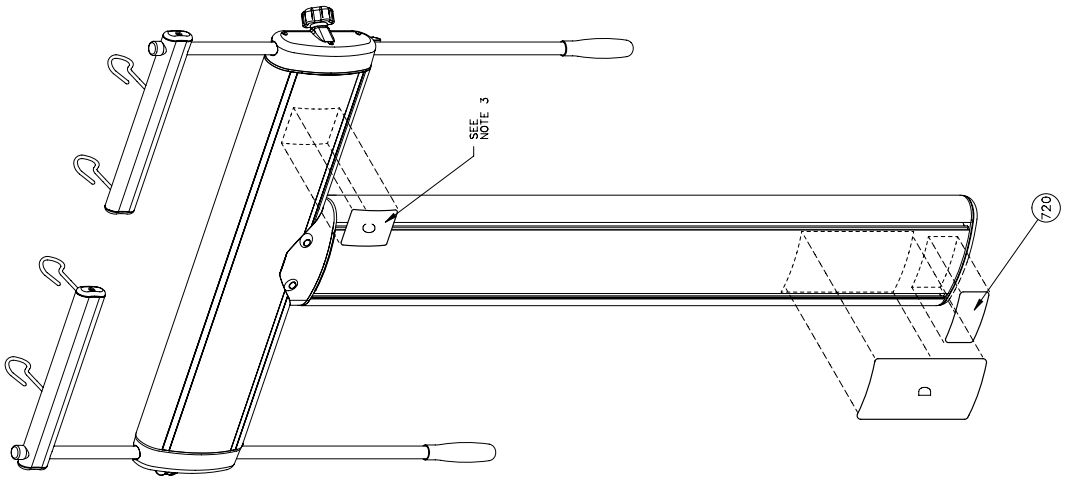
SKU No	SUB-ASSY DWG No	ITEM No
ALL	1000SP00449	3
	1000SP00347	2
	1000SP00451	5
	1000SP00289	12

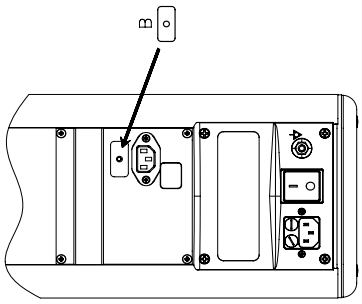
xxx REFERANCE TO PARTS THAT ARE ASSEMBLED AT A LOWER LEVEL SUB-ASSEMBLY.

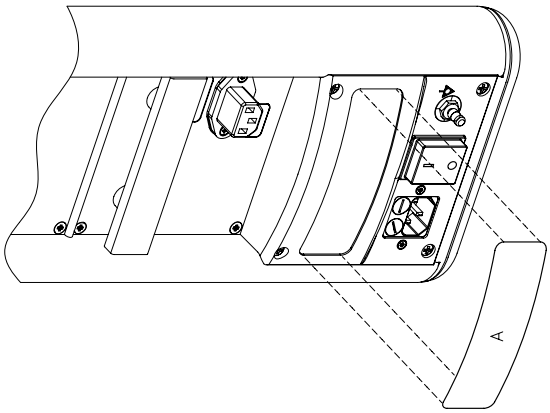
(xxx) REFEERANCE TO TOP LEVEL ASSEMBLY BOMS.

NOTES:

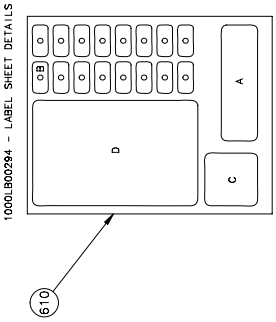
1. THIS DIAGRAM SHOWS MAXIMUM AVAILABLE CONFIGURATION (8x4). OTHER CONFIGURATIONS REDUCE BY RELEVANT No OF TILES ACCORDINGLY. (SEE MATRIX)
2. TILES ARE SHOWN AS VIEWED FROM REAR.
3. THIS DRAWING IS A SCHEMATIC AND IS ONLY INTENDED AS A REPRESENTATION OF WIRING POSITIONS.







1000LB00294 – LABEL SHEET DETAILS



NOTES

1. ENSURE SURFACES ARE CLEAN & DRY PRIOR TO FITTING LABELS.
2. POSITION LABELS AS INDICATED.
3. LABEL C IS ONLY FITTED ON CONFIGURATIONS WITH HORIZONTAL EXTRUSIONS.
4. TEST IN ACCORDANCE WITH 'ITEM 630'.

Spare Parts List

Part Number	Description
1000SP00502	DS Tile Board Spare
1000SP00503	DS PSU Spare
1000SP00504	DS / IDS End Cap Spare
1000SP00505	DS / IDS T-Piece Spare
1000SP00506	DS / IDS Trim Strip Spare
1000SP00507	DS / IDS Pole Hanger Spare
1000SP00508	DS / IDS 2 Way Pole Hanger
1000SP00509	DS / IDS 3 Way Pole Hanger
1000SP00510	DS Cable Kit Spare
1000SP00511	DS Hardware Spare Kits
1000SP00533	DS Front Cover Spares Kit
1000ME00409	Spacer Horizontal DS / IDS
1000SP00347	Assy Mains Inlet DS / IDS
1000LB01447	Alaris DS Label Set
1000SP01187	Mounting Kit Assembly DS Trolley
0000ME00432	Nut Square M6 DS
1000SP00665	DS Pole Clamp Assy - Extended
1000SP00303	Mounting Assy Kit Asena DS/IDS
1000SP00169	Assembly P/Clamp Docking Station Asena

Service Contacts

For service, contact your local Affiliate Office or Distributor.

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Document History

Issue	Date	CO No.	Author	Update Description
1	November 2006	6596	Ian Tyler	Initial release supersedes 1000PB00842.
2	November 2007	7885	Ian Tyler	Update test procedures.